**Spring Boot CRUD Operations / HTTP Methods in Spring RESTful Services**

1. **POST. (Create)**
2. **GET (Read)**
3. **PUT. (Update)**
4. **DELETE. (Delete)**
5. **POST (Create):**

1. To Add New data into DB or any storage service
2. Most common response for the http method are 201 create , 409 conflict i.e. resource already exist .
3. This can be used to update the entity but most proper http method for update is PUT.
4. We should annotate out method in the controller as @PostMapping
5. **GET (Read):**

1. The GET method used to retrieve information from the REST API and not to modify it in any way.
2. If the resource is found on the server then it must return HTTP response code 200 (OK) – along with response body (can be XML, JSON or (possible) RAW)
3. In case resource is NOT found on server then it must return 404 (Not Found).
4. In case that GET request itself is not correctly formed then server will return 400 (Bad Request)
5. We should annotate out method in the controller as @GetMapping
6. **PUT (Update) :**
7. The **PUT** method is used to update existing resource.
8. **PUT** method is idempotent, client can send the same request multiple time, and it will have same result as sending once.
9. In case of successful update then use HTTP response code 200 (OK) or 204 (No Content). 204 (No Content) normally is use if the action has been performed but the response does not include an entity
10. If a new resource created by **PUT** request, the response should be 201 (Created)
11. Should annotate with @PutMapping
12. **DELETE. (Delete) :**
13. **DELETE** method are used to delete a resource identified by the request URI.
14. A successful deletion should return HTTP response code 200 (OK) or 204 (No Content). DELETE can be a long-running or asynchronous request, so return 202 (Accepted) if the action has been queued.
15. In case that the resource doesn't exist, return 404 (Not Found)
16. Should annotate with @DeleteMapping